
1. RECORD MEDIUM AND ELECTROPHORETIC DISPLAY DEVICE

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APPLICANT(S)- BROTHER IND LTD

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PROBLEM TO BE SOLVED: To provide a record medium and an electrophoretic display device capable of color display .

SOLUTION: One color of two color charged particles enclosed a capsule made of a hollow spherical transparent resin is colored in any one of four colors, three additive primary colors plus black. A multilayer record medium is formed of four microcapsule layers P10y, P10m, P10c, P10k with charged particles encapsulated therein and applying a different image force to a capsule wall. By applying a control electric field with a direction and strength varied to each pixel by electrodes 22, 32 provided to sandwich the record medium therebetween, the image-force difference is used so that the charged particles P2y, P2m, P2c, P2k, P2w of each color are selectively displayed on a display surface P11 by electrophoresis , while a full color image is displayed and recorded on the record medium.

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